

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	19	("SHE, ALFRED" or "GIMLETT, JAMES")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 11:56
L2	33	"NETWORK ELEMENTS, INC"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:08
L3	2	I2 and (pipelin\$3 with (encrypt\$3 or encipher\$3 or decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:16
L4	2	I1 and (pipelin\$3 with (encrypt\$3 or encipher\$3 or decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:10
L5	377	(pipelin\$3 with (encrypt\$3 or encipher\$3 or decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:10
L6	13	I5 and (generat\$3 with ("round" adj "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:16
L7	1	I6 and ((("partially" or segment\$3 or "portion") with ((cipher\$3 or encrypt\$3 or encod\$3 or decipher\$3 or decrypt\$3 or decod\$3) with "text")))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:17
L8	13	I5 and (generat\$3 with ("round" adj "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:13
L9	14	"4140873"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:13
L12	762	380/37	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:16
L13	33	I12 and (pipelin\$3 with (encrypt\$3 or encipher\$3 or decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:23

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L14	2	I13 and (generat\$3 with ("round" adj "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:21
L15	1	I14 and (("partially" or segment\$3 or "portion") with ((cipher\$3 or encrypt\$3 or encod\$3 or decipher\$3 or decrypt\$3 or decod\$3) with "text"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:21
L16	620	380/42	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:20
L17	12	I16 and (pipelin\$3 with (encrypt\$3 or encipher\$3 or decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:22
L18	0	I17 and (generat\$3 with ("round" adj "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:22
L19	0	I17 and (("partially" or segment\$3 or "portion") with ((cipher\$3 or encrypt\$3 or encod\$3 or decipher\$3 or decrypt\$3 or decod\$3) with "text"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:22
L20	1471	380/44	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:21
L21	21	I20 and (pipelin\$3 with (encrypt\$3 or encipher\$3 or decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:22
L22	0	I21 and (generat\$3 with ("round" adj "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:22
L23	0	I21 and (generat\$3 with ("round" with "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:23
L24	0	I21 and (("partially" or segment\$3 or "portion") with ((cipher\$3 or encrypt\$3 or encod\$3 or decipher\$3 or decrypt\$3 or decod\$3) with "text"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:23

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L25	355	(generat\$3 with ("round" with "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:30
L26	20	I25 and (pipelin\$3 with (encrypt\$3 or encipher\$3 or decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:30
L27	2	I26 and (("partially" or segment\$3 or "portion") with ((cipher\$3 or encrypt\$3 or encod\$3 or decipher\$3 or decrypt\$3 or decod\$3) with "text"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:30
L29	1	I27 and (increment\$4 with (decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:30
L30	324	(increment\$4 with (decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:36
L31	10	I30 and (pipelin\$3 with (encrypt\$3 or encipher\$3 or decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:35
L32	1	I31 and (("partially" or segment\$3 or "portion") with ((cipher\$3 or encrypt\$3 or encod\$3 or decipher\$3 or decrypt\$3 or decod\$3) with "text"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:30
L33	1	I32 and (generat\$3 with ("round" with "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:31
L34	2	I31 and (generat\$3 with ("round" with "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:36
L35	880	380/29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:35
L36	14	I35 and (increment\$4 with (decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:43

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L37	2	I36 and (generat\$3 with ("round" with "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:36
L38	2884	380/30	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:36
L39	24	I38 and (increment\$4 with (decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:43
L40	0	I39 and (generat\$3 with ("round" with "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:44
L41	1011	713/150	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:43
L42	13	I41 and (increment\$4 with (decrypt\$3 or decipher\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:47
L43	1	I42 and (generat\$3 with ("round" with "key"))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:44
L44	9	"5875248"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/10 12:47

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## Patents

Patents 1 - 10 on pipeline with encryption and decryption. (0.03 seconds)

### Decryption of graphics data in a graphics processing pipeline

US Pat. 7159112 - Filed Aug 26, 2003 - NVIDIA Corporation

display device, and various user-adjustable settings of the Examples of  
 cryptographic (**encryption and decryption**) <sup>o</sup>f a plurality rendering device quality of a ...

### Firewall including local bus

US Pat. 6701432 - Filed Apr 1, 1999 - Netscreen Technologies, Inc.

If the **pipeline** was not used, the rule search could take three times longer.

Referring now to FIGS. 2, 4 and 7, an **encryption/ decryption** process 700 is ...

### Method of and apparatus for encryption and decryption of communication data

US Pat. 5321752 - Filed Sep 4, 1992 - Canon Kabushiki Kaisha

Systolic array executes **pipeline- encryption** key is opened to public, while  
**decryption** based processing using a plurality of types of processing key is kept ...

### Digital radio with vocoding encrypting codec

US Pat. 5592556 - Filed Aug 9, 1994 - Ericsson GE Mobile Communications Inc.

20 More About **Encryption and Decryption** **Encryption and decryption** are means to  
 scramble ... **PIPELINE PROCESSING** Within SPM 104 In the preferred embodiment, ...

### Virtual matrix encryption (VME) and virtual key cryptographic method and apparatus

US Pat. 6219421 - Filed Oct 24, 1997 - Shaul O. Backal

Unlike existing **encryption/decryption** algorithms, the 15 present technique uses  
 a complex ... to form a "pipeline" into which data to be secured is passed. ...

### Encryption processor with shared memory interconnect

US Pat. 6434699 - Filed Jun 1, 2000 - MOSAID Technologies Inc.

... be programmed to perform common data **encryption and decryption** algorithms on  
 ... A control CPU 52 synchronizes the operations of the **encryption pipeline** ...

### Calculating apparatus having a plurality of stages

US Pat. 7017064 - Filed May 9, 2001 - MOSAID Technologies, Inc.

Typically, **encryption/decryption** is performed based on algorithms which are intended  
 ... **Pipeline** processors comprising a plurality of separate processing ...

### Encryption apparatus using data encryption standard algorithm

US Pat. 7099470 - Filed Jun 12, 2001 - Hynix Semiconductor Inc.

... 56 bits among the 64-bit key block for **encryption and decryption** and remaining 8  
 ... The micro **pipeline** structure is a structure pipelining an iterative ...

### Encryption processor with shared memory interconnect

US Pat. 6088800 - Filed Feb 27, 1998 - Mosaid Technologies, Incorporated

.. is also designed to perform **decryption** and of the PK ALU message digest ...

of the 4x4 multiplier overlaid thereon. **encryption/decryption pipeline**. ...

**System and apparatus for blockwise encryption/decryption of data**

US Pat. 5799089 - Filed Apr 12, 1996 - Irdeto B.V.

2, the **encryption** device comprises a this case the blocks can be reversed ...

In order to encrypt a data block, the data **decryption** algorithm (D) and then ...

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## Patents

Patents 1 - 2 on pipeline with deciphering round keys. (0.02 seconds)

### System and method for providing secure internetwork services via an assured pipeline

US Pat. 7181613 - Filed May 26, 2004 - Secure Computing Corporation

1 SYSTEM AND METHOD FOR PROVIDING SECURE INTERNETWORK SERVICES VIA AN ASSURED PIPELINE RELATED APPLICATIONS 5 This application is a continuation of US ...

### System and method for providing secure internetwork services via an assured pipeline

US Pat. 6772332 - Filed Dec 23, 1998 - Secure Computing Corporation

SYSTEM AND METHOD FOR PROVIDING SECURE INTERNETWORK SERVICES VIA AN ASSURED PIPELINE This application is a continuation of US Ser. No. ...

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## Patents

Patents 21 - 23 on generated deciphering round keys. (0.01 seconds)

### Database management apparatus and encrypting/decrypting system

US Pat. 7093137 - Filed Sep 26, 2000 - Casio Computer Co., Ltd.

1 ... 65 as an operation in which r, , rotates by 9 round the normal set on the plane. The R is a matrix of 2x2, ...

### KS KS KS KS KS KS

US Pat. 3796830 - Filed Nov 2, 1971 - International Business Machines Corporation

This is assured by the use of the true and inverse permutation control signals K.

The T bits now having been generated, the source registers and convolution ...

### Method of generating pseudo-random numbers in an electronic device, and a method of encrypting ...

US Pat. 7170997 - Filed Dec 7, 2001 - Cryptico A/S

... to be generated for eg encryption and decryption of data. ... Kawasaki, discloses an enciphering/deciphering apparatus and a method incorporating random ...

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generated deciphering round keys

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## Patents

Patents 1 - 10 on generated deciphering round keys. (0.02 seconds)

### Method of deciphering ciphered data and apparatus for same

US Pat. 6732271 - Filed Mar 31, 2000 - Hitachi, Ltd.

Generally, in all the modes of ECB, CBC, CFB and OFB for DBS enciphering and deciphering, a long processing time is taken by 16-round DBS cipher stages ...

### Key controlled block cipher cryptographic system

US Pat. 4255811 - Filed Mar 25, 1975 - International Business Machines Corporation

Upon the receipt of the "keys generated" operation of the algorithm is currently

... An exception to this, as will be noted, **round** of decipherment. are the ...

### Method for authenticating the identity of a user of an information system

US Pat. 4218738 - Filed May 5, 1978 - International Business Machines Corporation

System generated primary communication **keys**, ie session  $ke^a$ , are time variant... enciphering and **deciphering** operations and is identical for both units. ...

### Digital video content transmission ciphering and deciphering method and apparatus

US Pat. 7043021 - Filed Apr 14, 2004 - Intel Corporation

Thus, in a desired number of clock cycles, a pseudo random bit sequence of a desired length is **generated**. For the illustrated embodiment, by virtue of the ...

### Digital video content transmission ciphering and deciphering method and apparatus

US Pat. 6731758 - Filed Aug 29, 1999 - Intel Corporation

Thus, in a desired number of clock cycles, a pseudo random bit sequence of a desired length is **generated**. For the illustrated embodiment, by virtue of the ...

### Digital video content transmission ciphering and deciphering method and apparatus

US Pat. 6477252 - Filed Aug 29, 1999 - Intel Corporation

Thus, in a desired number of clock cycles, a pseudo random bit sequence of a desired length is **generated**. FIG. 6 illustrates the block key section of FIG. ...

### Method and apparatus for protecting copy control information provided to a video recording device

US Pat. 6947561 - Filed Jun 30, 2000 - Intel Corporation

The stored intermediate "keys" are then applied to the ciphered text in reversed 40 order, resulting in the **deciphering** of the ciphered text back into the ...

### Method and apparatus for advanced symmetric key block cipher with variable length key and block

US Pat. 6243470 - Filed Feb 4, 1998 - International Business Machines Corporation

Regardless of when the sub-**keys** are **generated**, the following process is used.... to the number of rounds to be used for enciphering and **deciphering**. ...

### Method and apparatus for advanced byte-oriented symmetric key block cipher with variable length ...

US Pat. 6192129 - Filed Feb 4, 1998 - International Business Machines Corporation

Since a different sub-key is produced during each **round** of this operation, the iteration counter also indicates how many sub-**keys** have been **generated**. ...

Medium, apparatus, and method related to encryption resultant information

US Pat. 6859427 - Filed Jul 3, 2003 - Matsushita Electric Industrial Co., Ltd.

In this case, moving picture addresses are generated mation to obtain said ...

231(Z>) shows index 30 deciphering said ciphered information to obtain said ...

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## Patents

Patents 1 - 2 on **real-time deciphering round key generation**. (0.20 seconds)

### Multi-mode digital enciphering system

US Pat. 4079188 - Filed Apr 14, 1975 - Datotek, Inc.

As the key data is requested by the prime data circuit, it is 10 accumulated ...

Both of these circuits perform the enciphering- /deciphering algorithm. ...

### Multi-mode digital enciphering system

US Pat. 4140873 - Filed Sep 9, 1977 - Datotek, Inc.

The key generator FAULT is only one of six alarm conditions. ... the enciphered data at the master station must be enciphered with real time key. ...

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## Patents

Patents 1 - 10 on incrementing with deciphering and decryption. (0.09 seconds)

### Enciphering/deciphering device and method, and encryption/decryption communication system

US Pat. 5870477 - Filed Mar 29, 1996 - Pumpkin House Incorporated

... deciphering ... decryption ...

### Block encryption method and schemes for data confidentiality and integrity protection

US Pat. 6973187 - Filed Jan 18, 2001 - VDG, Inc.

In a further aspect of the present invention, the **deciphering** step comprises performing ... and **incrementing** the counter by one on every message encryption; ...

### Multiprocessor data memory sharing system in which access to the data memory is determined by ...

US Pat. 5598575 - Filed Apr 15, 1996 - Ericsson Inc.

After every execution of step 3, activate the encryption/ **decryption** ... In a preferred implementation, the **deciphering** operation is performed on the fly, ...

### Encryption system with transaction coded **decryption** key

US Pat. 5889860 - Filed Nov 8, 1996 - Sunhawk Corporation, Inc.

This information allows for proper **incrementing** of a multi-use 10 8 embodiment, ... 8 and 9 illustrate one implementation of the 40 encryption/**decryption** ...

### Automatic resynchronization of crypto-sync information

US Pat. 6697490 - Filed Oct 19, 1999 - Lucent Technologies Inc.

The **incrementing** and comparison procedure is limited to a certain number of times ... a **decryption** module wherein said **decryption** module uses said local ...

### Method of counterfeit detection of electronic data stored on a device

US Pat. 5875248 - Filed Feb 25, 1997 - International Business Machines Corporation

... **decryption** means for **deciphering** said return number using said session key to ... **incrementing** said deciphered number by a first value to generate an ...

### Wireless local loop with intelligent base station

US Pat. 7050799 - Filed Aug 28, 2002 - Intel Corporation

9 and 10 and described later herein), encryption and **decryption** may be ... for both the over-the-air and the backhaul time frames, so **incrementing** the frame ...

### Wireless local loop with intelligent base station

US Pat. 6496694 - Filed Jan 13, 2000 - Intel Corporation

With regard to encryption and **decryption** functions, a bearer encryption (or ... so **incrementing** the frame number each frame cycle normally maintains frame ...

### Continuous cipher synchronization for cellular communication system

US Pat. 5060266 - Filed Jul 20, 1990 - Ericsson GE Mobile Communications Holding Inc.

... over the communications medium. specific encryption and **decryption** technique used by as ... such 5 the ciphering unit 220 and the **deciphering** unit 224, ...

User defined function facility

US Pat. 5301231 - Filed Feb 12, 1992 - International Business Machines Corporation  
DECODE Key, In, Out—Perform a Data Encryption Algorithm Electronic Code Book (DEA  
ECB) mode **decryption** operation using the registers specified in the ...

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